4. VCR Alignment and Adjustments

4-1 Reference

1) X-Point (Tracking center) adjustment, “Head switching adjustment” and “NVRAM option setting” can be adjusted with remote control.
2) When replacing the VCR Main PCB Micom (IC601) and NVRAM (IC605 ; EEPROM) be sure to adjust the “Head switching adjustment” and “NVRAM option setting”.
3) When replacing the cylinder ass’y, be sure to adjust the “X-Point” and “Head switching adjustment”.
4) How to adjustment.
   - Press the “SW709/SW707 (TEST)” button on Function-Timer PCB to set the adjustment mode.
   - If the corresponding adjustment button is pressed, the adjustment is performed automatically.

4-1-1 Location of adjustment button of remote control

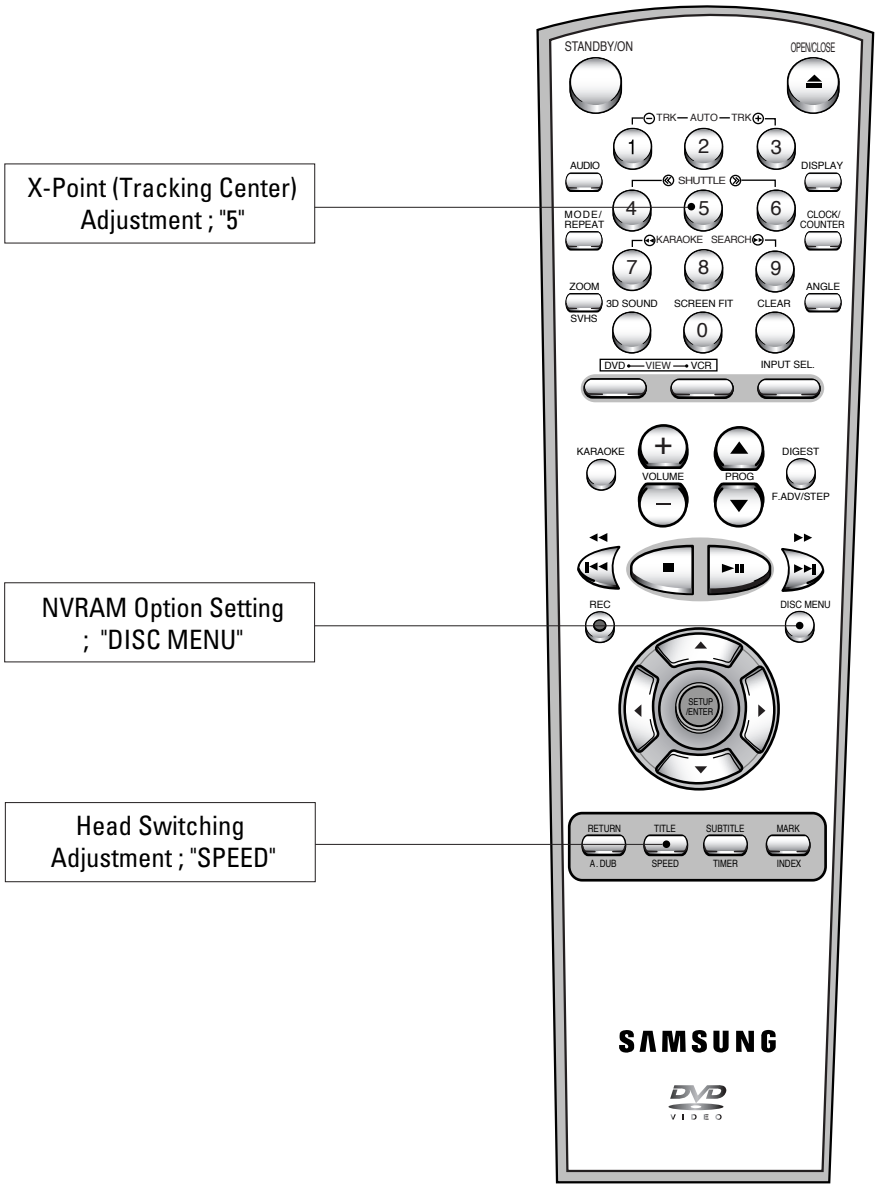
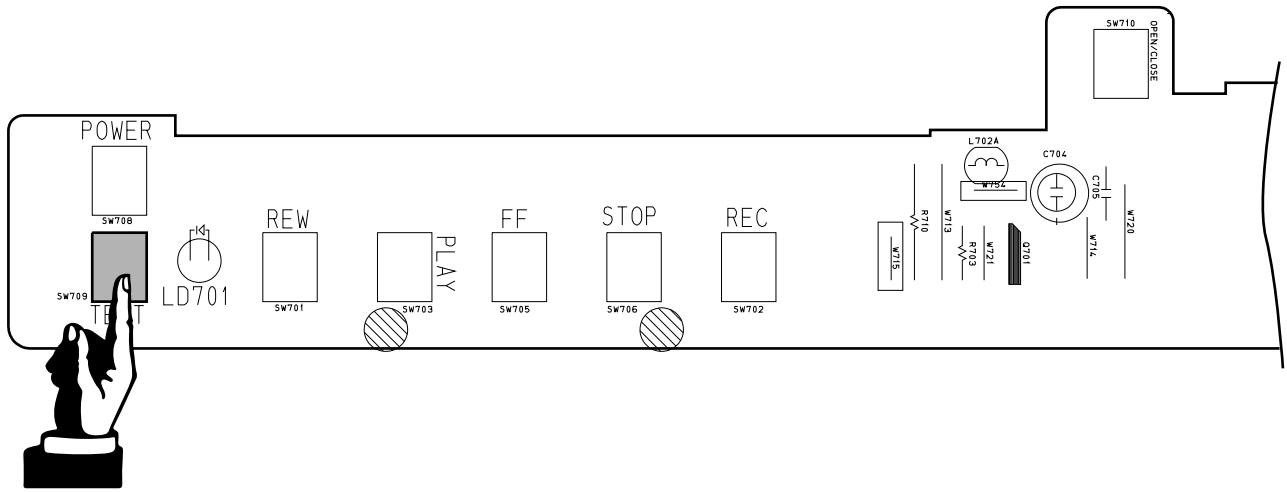


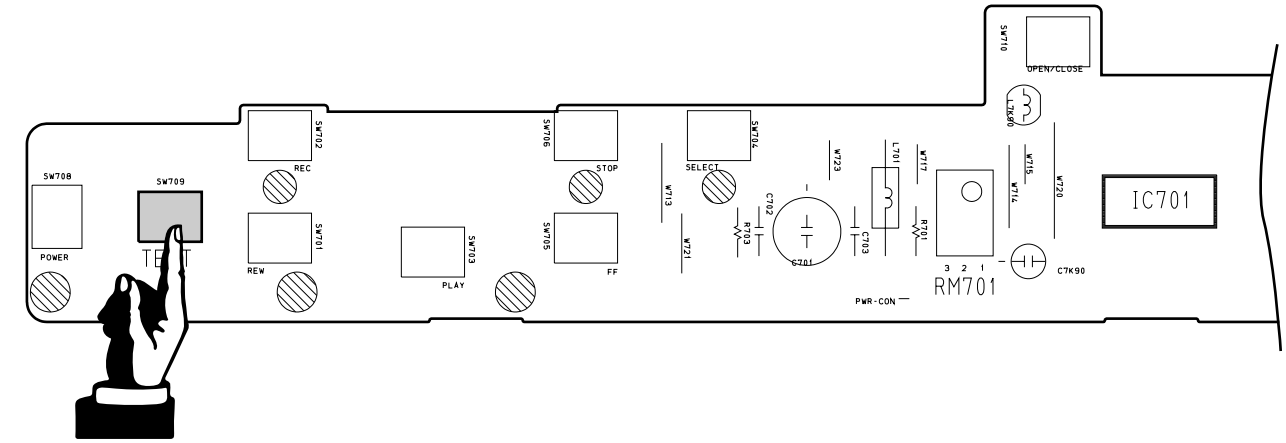
Fig. 4-1

4-1-2 TEST location for adjustment mode setting



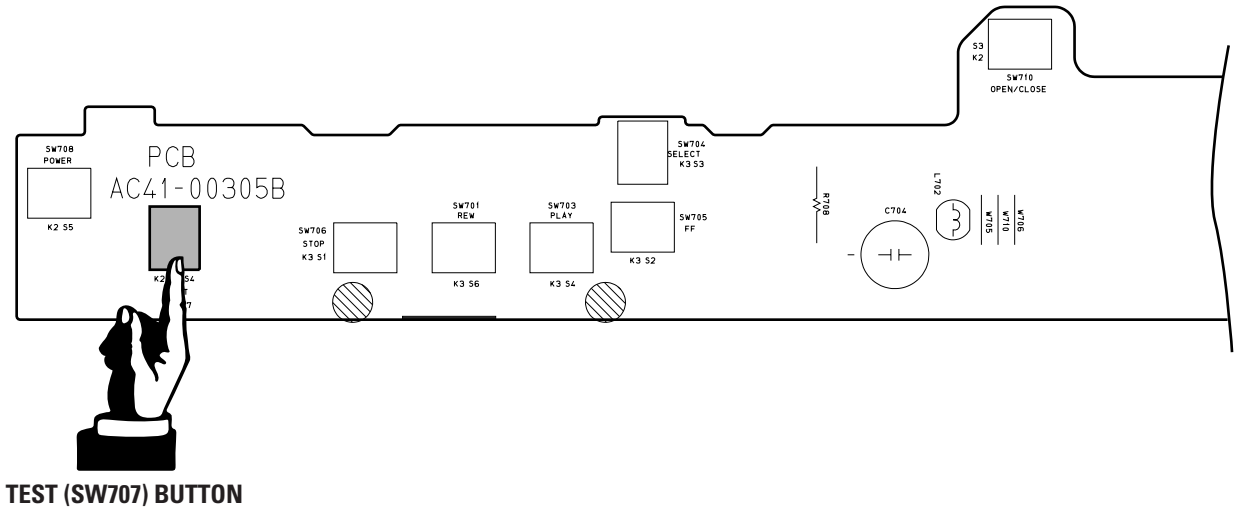
TEST (SW709) BUTTON

<DVD-V85K/V72K/V55K/V52K>



TEST (SW709) BUTTON

<DVD-V12500/V12000/SV-DVD2EK>



TEST (SW707) BUTTON

<DVD-V52>

Fig. 4-2 Function-Timer PCB (Top View)

4-2 Mechanical Adjustment

Note : Refer to the Mechanical Manual "TS-10A (AC82-00023A)" for the adjustment and confirmation of ass'y full deck.

4-2-1 The number and position of test point

Test point :	TP2 (Audio Output)
	TP3 (Envelope)
	TP4 (H'D S/W -Trigger)
	TP5 (Control Pulse)

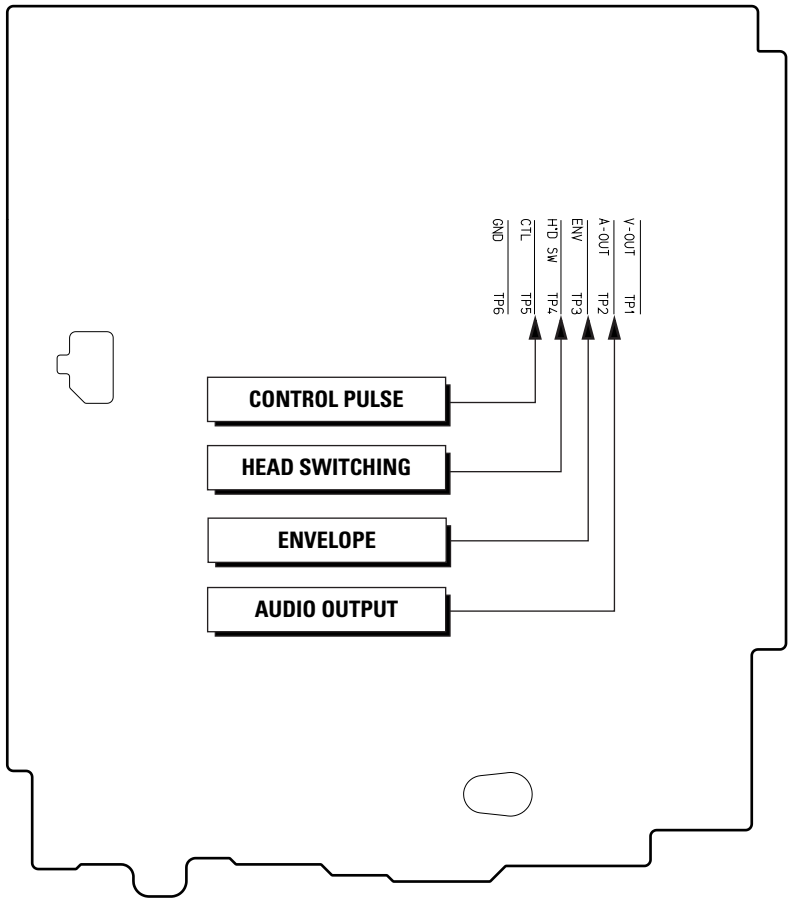


Fig. 4-3 Location of Test point (VCR Main PCB-Top View)

4-2-2 ACE Head position (X-Point) Adjustment

(See the 4-2-1(d) ACE Head Position (X-Point) Adjustment on page 4-2 of the Mechanical Manual)

1) Playback the alignment tape (Color bar).
2) Press the "SW709/SW707 (TEST)" button on F/Timer PCB to set the adjustment mode. (See Fig. 4-2)
3) Press the "5" button of remote control then adjustment is operated automatically. (See Fig. 4-1)
4) Connect the CH-1 probe to TP3 (Envelope) the CH-2 probe to TP4 (H'D switching pulse) and then trigger to CH-1.
5) Insert the (-) driver into the X-Point adjustment hole and adjust it so that envelope waveform is maximum.
6) Turn the Power off.

4-3 Head Switching Point Adjustment

1) Playback the alignment tape.
2) Press the "SW709/SW707(TEST)" button on Function-Timer PCB to set the adjustment mode. (See Fig. 4-2)
3) Press the "SPEED" button of remote control then adjustment is operated automatically. (See Fig. 4-1)

4-4 NVRAM Option Setting

1) NVRAM Option is adjusted at production line basically.
2) In case VCR Main PCB Micom (IC601) and NVRAM (IC605 ; EEPROM) is replaced, be sure to set the corresponding option number of the reqaired model. (If the option is not set, the unit is not operated.)

1) Press the "SW709/SW707(TEST)" button on Function-Timer PCB to set the adjustment mode. (See Fig. 4-2)
2) Press the "DISC MENU" button on the remote control about 5 seconds then option setting is appeared. (See Fig. 4-4)
3) Select the option number (See table 4-1) of corresponding model with "◀, ▶, ▲, ▼" button on the remote control.
4) If selecting the option number is completed, press the "▼" button of remote control.
(If "▼" button is pressed, the selected number is changes reversed color. ; See Fig. 4-4)
5) Press the "RETURN" button of remote control again to store the option number.
6) Turn the Power off.

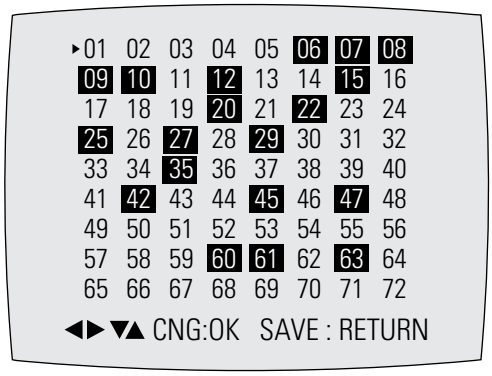


Fig.4-4

<Table 4-1 NVRAM Option Table>

COUNTRY	MODELS	OPTION NUMBER
China	DVD-V85K	6, 7, 8, 9, 10, 12, 20, 22, 26, 28, 29, 33, 35, 42, 44, 47, 51, 57, 60, 61, 63, 69, 70
H.K	DVD-V85K	6, 7, 8, 9, 10, 12, 20, 22, 25, 28, 29, 35, 36, 42, 44, 47, 51, 57, 60, 61, 63, 69
	DVD-V52	9, 10, 12, 15, 20, 22, 33, 34, 35, 36, 38, 40, 42, 44, 47, 50, 52, 57, 60, 61, 63, 68
Thailand	DVD-V55K	6, 9, 10, 12, 20, 22, 33, 34, 35, 36, 40, 42, 44, 47, 51, 52, 57, 60, 61, 63, 68, 69
	DVD-V52	9, 10, 12, 15, 20, 22, 33, 34, 35, 36, 38, 40, 42, 44, 47, 50, 52, 57, 60, 61, 63, 68
Malaysia/Indonesia	DVD-V85K	6, 7, 8, 9, 10, 12, 20, 22, 25, 28, 29, 35, 36, 42, 44, 47, 51, 57, 60, 61, 63, 69
India/Vietnam/Singapore	DVD-V52	9, 10, 12, 15, 20, 22, 33, 34, 35, 36, 38, 40, 42, 44, 47, 50, 52, 57, 60, 61, 63, 68
Iran	DVD-V12000	6, 9, 10, 12, 20, 22, 33, 34, 35, 36, 40, 42, 44, 47, 52, 56, 57, 60, 61, 63, 68, 69
	DVD-V12500	6, 9, 10, 12, 20, 22, 33, 34, 35, 36, 40, 42, 44, 47, 52, 56, 57, 60, 61, 63, 68, 69
UAE/Egypt	DVD-V55K	6, 9, 10, 12, 20, 22, 33, 34, 35, 36, 40, 42, 44, 47, 51, 52, 55, 57, 60, 61, 63, 68, 69
Saudi Arabia/Lebanon	DVD-V52K	9, 10, 12, 20, 22, 33, 34, 35, 36, 40, 42, 44, 47, 51, 52, 55, 57, 60, 61, 63, 68, 69
CIS	SV-DVD2EK	6, 9, 10, 12, 20, 33, 34, 35, 36, 40, 42, 44, 47, 52, 54, 57, 60, 61, 63, 68, 69
Australia	DVD-V72K	1, 6, 7, 9, 10, 12, 20, 28, 33, 34, 42, 44, 47, 51, 52, 53, 57, 60, 61, 63, 69
South Africa	DVD-V55K	6, 9, 10, 12, 20, 33, 34, 35, 36, 40, 42, 44, 47, 51, 52, 53, 57, 60, 61, 63, 68, 69
	DVD-V52K	9, 10, 12, 20, 33, 34, 35, 36, 40, 42, 44, 47, 51, 52, 53, 57, 60, 61, 63, 68, 69